

Title (en)
Two-piece concentric collet

Title (de)
Konzentrische zweiteilige Spannzange

Title (fr)
Pince de serrage concentrique en deux parties

Publication
EP 0761351 A1 19970312 (EN)

Application
EP 96305729 A 19960802

Priority
US 52176195 A 19950831

Abstract (en)
A drilling mechanism for drilling one or more holes in a workpiece includes a collet (100) for securing the drilling mechanism to a hole formed in a fixture mounted in front of the workpiece. The collet (100) is slidable rearwardly along a tapered nosepiece to be elastically expanded outwardly into tight frictional contact with the fixture hole. The collet comprises a clamping part (102) and a separate displacement part (104) connected thereto. A contact interface is formed by the clamping and displacement parts for transmitting rearward forces from the displacement part to the clamping part. The contact interface extends for 360 degrees about the center axis of the collet. Longitudinal play is provided between the displacement and clamping parts so that when the collet is to be moved forwardly and released from the fixture, the displacement part is initially moved longitudinally relative to the clamping part to apply a radially inward force to the clamping part for disengaging the clamping part from the fixture hole. <IMAGE>

IPC 1-7
B23B 49/02; **B25H 1/00**

IPC 8 full level
B23B 45/14 (2006.01); **B23B 49/02** (2006.01)

CPC (source: EP US)
B23B 49/02 (2013.01 - EP US); **Y10T 408/56245** (2015.01 - EP US); **Y10T 408/564** (2015.01 - EP US)

Citation (search report)
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• [A] US 5395187 A 19950307 - SLESINSKI RAYMOND J [US], et al
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Designated contracting state (EPC)
DE ES FR GB SE

DOCDB simple family (publication)
EP 0761351 A1 19970312; **EP 0761351 B1 20010530**; DE 69613064 D1 20010705; DE 69613064 T2 20011011; ES 2158995 T3 20010916; US 5628592 A 19970513

DOCDB simple family (application)
EP 96305729 A 19960802; DE 69613064 T 19960802; ES 96305729 T 19960802; US 52176195 A 19950831